Industrial QUALITY CONTROL

VOL. VII JULY, 1950 NO. 1

INDEX

VOLUME VI

JULY 1949 — MAY 1950

AMERICAN SOCIETY FOR QUALITY CONTROL

A—LISTING BY AUTHORS AND TITLES

Authors and Titles	Issue	Page
BECKER, A. H.: *Operator Interest and Co-operation in Statistical Quality Control*	Nov., 1949	27
BICKING, CHARLES A.: *The Application of Quality Control to Administrative Problems*	May, 1950	21
BRUMBAUGH, MARTIN A.: *Quality Control —1949 Model*	Jan., 1950	7
BURGESS, A. R.: *A Simple Calculator for Averages and Ranges*	Mar., 1950	20
BURR, IRVING W.: *A New Method for Approving a Machine or Process Setting—Part II*	Sep., 1949	15
Part III	Nov., 1949	13
CARTER, E. FINLEY: *Quality is a Management Responsibility*	Nov., 1949	19
COHEN, A. C., JR.: *A Note on Truncated Distributions*	Nov., 1949	22
DALTON, A. G.: *Important Advantages of Statistical Quality Control in Manufacture*	May, 1950	35
EISENHART, CHURCHILL: *Probability Center Lines for Standard Deviation and Range Charts*	Jul., 1949	24
GRIFFITH, O. C.: *The Air Force Approach to Statistical Quality Control*	May, 1950	26
HADEN, EDWARD B.: *Statistical Methods and Proper Equipment Pay Off*	Jan., 1950	24
HAILES, G. M.: *One Important Aspect of SQC*	Nov., 1949	28
HARRINGTON, LEO: *Quality Level Certification*	May, 1950	42
HAYES, ALDIS S.: *Control of Visual Inspection*	May, 1950	73
HOOVER, CARL E.: *SQC in the Manufacture of Piston Rings*	Nov., 1949	21
JACOBSON, LEO J.: *Nomograph for Determination of Variables Inspection Plans for Fraction Defective*	Nov., 1949	23

Authors and Titles	Issue	Page
KING, EDGAR P.: *Note on an Inspector Rating Scheme*	Mar., 1950	29
LOBSINGER, DALE L.: *Air Transportation Finds New and Lucrative Uses for SQC*	May, 1950	76
MILES, R. C.: *The Quality Control Indicator*	Mar., 1950	16
MOSTELLER, FREDERICK and TUKEY, JOHN W.: *Practical Applications of New Theory: A Review*		
Part I—Location and Scale: Tables	Sep., 1949	5
Part II—Counted Data—Graphical Methods	Nov., 1949	5
Part III—Analytical Techniques	Jan., 1950	5
Part IV—Gathering Information	Mar., 1950	5
MUNDEL, AUGUST B.: *Quality Reports to Management*	Nov., 1949	8
McNAIRY, J. W.: *An Appraisal of Quality Control*	Jul., 1949	5
PURCELL, WARREN R.: *The Scope of Quality Control*	Sep., 1949	8
ROBINSON, E. H.: *The Quality Control Department as a Training Ground for Future Supervisory Personnel*	Jan., 1950	21
SADDORIS, R. S.: *Acknowledgments*	May, 1950	57
SCHROCK, EDWARD M.: *Improving Vendor-Consumer Relationships*	May, 1950	69
SEDER, LEONARD A.: *Diagnosis with Diagrams—Part I*	Jan., 1950	11
Diagnosis with Diagrams—Part II	Mar., 1950	7
SMALL, BONNIE B.: *Use of Control Chart Techniques in Making a Quality Audit—Part I*	Jul., 1949	15
Part II	Sep., 1949	11
SMITH, EDWARD S.: *Checking Process Spread Against Specification Limits for a Process Operating in Tight Control*	Jul., 1949	26
THOMPSON, H. E.: *A Talk with the Foreman about Quality Control*	May, 1950	29
TUKEY, JOHN W. and MOSTELLER, FREDERICK: *(See "Mosteller" above)*		
VERIGAN, J. FREDERICK: *Quality Control at The Weatherhead Company*	May, 1950	36
WAGENHALS, R. E.: *Mechanical Chip Mixers*	Nov., 1949	3
A Quincunx Demonstrator	Mar., 1950	3
WAREHAM, RALPH E.: *Organization — American Society for Quality Control*	May, 1950	45

B—LISTING BY TITLES AND AUTHORS

Titles and Authors	Issue	Page
ACKNOWLEDGMENTS: *R. S. Saddoris*	May, 1950	57
AIR FORCE APPROACH TO STATISTICAL QUALITY CONTROL: *O. C. Griffith*	May, 1950	26
AIR TRANSPORTATION FINDS NEW AND LUCRATIVE USES FOR SQC: *Dale L. Lobsinger*	May, 1950	76
APPLICATION OF QUALITY CONTROL TO ADMINISTRATIVE PROBLEMS: *Charles A. Bicking*	May, 1950	21
APPRAISAL OF QUALITY CONTROL: *J. W. McNairy*	Jul., 1949	5
BENDER CONTROL LIMIT CALCULATOR	May, 1950	81
CHECKING PROCESS SPREAD AGAINST SPECIFICATION LIMITS FOR A PROCESS OPERATING IN TIGHT CONTROL: *Edward S. Smith*	Jul., 1949	26
CONTROL OF VISUAL INSPECTION: *Aldis S. Hayes*	May, 1950	73
DIAGNOSIS WITH DIAGRAMS—PART I: *Leonard A. Seder*	Jan., 1950	11
DIAGNOSIS WITH DIAGRAMS—PART II: *Leonard A. Seder*	Mar., 1950	7
IMPORTANT ADVANTAGES OF STATISTICAL QUALITY CONTROL IN MANUFACTURE: *A. G. Dalton*	May, 1950	35
IMPROVING VENDOR-CONSUMER RELATIONSHIPS: *Edward M. Schrock*	May, 1950	69
MECHANICAL CHIP MIXERS: *R. E. Wagenhals*	Nov., 1949	3
NEW METHOD FOR APPROVING A MACHINE OR PROCESS SETTING: *Irving W. Burr*		
PART II	Sep., 1949	15
PART III	Nov., 1949	13
NEW SLIDE RULE FOR SQC CALCULATIONS	Mar., 1950	23
NOMOGRAPH FOR DETERMINATION OF VARIABLES INSPECTION PLANS FOR FRACTION DEFECTIVE: *Leo J. Jacobson*	Nov., 1949	23
NOTE ON AN INSPECTOR RATING SCHEME: *Edgar P. King*	Mar., 1950	29
NOTE ON TRUNCATED DISTRIBUTIONS: *A. C. Cohen, Jr.*	Nov., 1949	22
ONE IMPORTANT ASPECT OF SQC: *G. M. Hailes*	Nov., 1949	28
OPERATOR INTEREST AND COOPERATION IN STATISTICAL QUALITY CONTROL: *A. H. Becker*	Nov., 1949	27
ORGANIZATION — AMERICAN SOCIETY FOR QUALITY CONTROL: *Ralph E. Wareham*	May, 1950	45
POCKET COMPARATOR—A NEW MEASURING INSTRUMENT	Mar., 1950	22
PRACTICAL APPLICATIONS OF NEW THEORY: A REVIEW: *Frederick Mosteller and John W. Tukey*		
PART I — LOCATION AND SCALE: TABLES	Sep., 1949	5
PART II—COUNTED DATA—GRAPHICAL METHODS	Nov., 1949	5
PART III—ANALYTICAL TECHNIQUES	Jan., 1950	5
PART IV—GATHERING INFORMATION	Mar., 1950	5
PROBABILITY CENTER LINES FOR STANDARD DEVIATION AND RANGE CHARTS: *Churchill Eisenhart*	Jul., 1949	24
QUALITY CONTROL—1949 MODEL: *Martin A. Brumbaugh*	Jan., 1950	7
QUALITY CONTROL AT THE WEATHERHEAD COMPANY: *J. Frederick Verigan*	May, 1950	36

Titles and Authors	Issue	Page
QUALITY CONTROL DEPARTMENT AS A TRAINING GROUND FOR FUTURE SUPERVISORY PERSONNEL: *E. H. Robinson*	Jan., 1950	21
QUALITY CONTROL INDICATOR: *R. C. Miles*	Mar., 1950	16
QUALITY IS A MANAGEMENT RESPONSIBILITY: *E. Finley Carter*	Nov., 1949	19
QUALITY LEVEL CERTIFICATION: *Leo Harrington*	May, 1950	42
QUALITY REPORTS TO MANAGEMENT: *August B. Mundel*	Nov., 1949	8
QUINCUNX DEMONSTRATOR: *R. E. Wagenhals*	Mar., 1950	3
SCOPE OF QUALITY CONTROL: *Warren R. Purcell*	Sep., 1949	8
SIMPLE CALCULATOR FOR AVERAGES AND RANGES: *A. R. Burgess*	Mar., 1950	20
SQC IN THE MANUFACTURE OF PISTON RINGS: *Carl E. Hoover*	Nov., 1949	21
STATISTICAL METHODS AND PROPER EQUIPMENT PAY OFF: *Edward B. Haden*	Jan., 1950	24
STATISTICAL QUALITY CONTROL AND ITS POSITION IN THE NAVAL ORDNANCE SHORE ESTABLISHMENT	May, 1950	41
TALK WITH THE FOREMAN ABOUT QUALITY CONTROL: *H. E. Thompson*	May, 1950	29
USE OF CONTROL CHART TECHNIQUES IN MAKING A QUALITY AUDIT—		
Bonnie B. Small. PART I	Jul., 1949	15
PART II	Sep., 1949	11

C—BIBLIOGRAPHY DEPARTMENT

JOSEPH MOVSHIN, Editor

January 1950; page 30 ..... 20 titles
March 1950; page 24 ..... 20 titles
May 1950; page 83 ..... 23 titles

D—BOOK REVIEWS DEPARTMENT

A. C. COHEN, JR., Editor

ELEMENTARY STATISTICAL ANALYSIS
S. S. Wilks. Princeton University Press, Princeton, N. J., 1948.
Review by W. Edwards Deming, Bureau of the Budget, Washington, D. C. November, 1949; page 33.

NOMOGRAPHY
Alexander S. Levens. John Wiley & Sons, Inc., New York, 1948.
Review by David Moskovitz, Professor of Mathematics, Carnegie Institute of Technology, Pittsburgh, Pennsylvania. November, 1949; page 34.

SELECTED TECHNIQUES OF STATISTICAL ANALYSIS
Prepared by the Statistical Research Group, Columbia University. Edited by Churchill Eisenhart, Millard W. Hastay, and W. Allen Wallis. Published by McGraw-Hill Book Company, Inc., New York and London, 1947.
Review by Allen T. Craig, The University of Iowa. September, 1949; page 23.

STATISTICAL METHODS IN RESEARCH
Palmer O. Johnson. Prentice Hall, Inc., New York, 1949.
Review by Irving W. Burr, Purdue University. January, 1950; page 34.

THE SCIENCE OF CHANCE: FROM PROBABILITY TO STATISTICS
H. C. Levinson. Rinehart & Co., New York, 1950.
Review by Paul Peach, Associate Professor, Department of Experimental Statistics, North Carolina State College, Raleigh, N. C. May, 1950; page 87.

E—PRACTICAL AIDS DEPARTMENT

ELLIS R. OTT, Editor

Titles and Authors	Issue	Page
AIDS FOR COMPUTING LIMITS FOR p CHARTS: *John M. Howell*	Jul., 1949	20
A NOMOGRAPH FOR LIMIT LINES ON MEASUREMENT CHARTS: *Raymond L. Clark*	Sep., 1949	21
A CHECK ON SOME INSPECTION DATA: *William R. Pabst*	Nov., 1949	29
VARIABLES CONTROL CHART IN PRODUCTION RESEARCH: *Ellis R. Ott*	Nov., 1949	30
NORMAL CURVE AREA NOMOGRAM: *Edward C. Varnum*	Jan., 1950	32
A SIMPLE FORMULA FOR SKEWNESS: *Ralph Haertel*	Mar., 1950	26
A CHART FOR THE DIRECT READING OF THE AVERAGE OUTGOING QUALITY FROM THE OPERATING CHARACTERISTIC CURVE: *A. R. Burgess*	May, 1950	79

F—PROBLEMS DEPARTMENT

G. RUPERT GAUSE, Editor

Title	Issue	Page
A problem concerning an ambiguity in control limits on the range and sigma charts for sample size two. *Proposed by:* W. B. Traver. *Solution by:* Harry G. Romig	Mar., 1950	28

G—EDITORIALS

Title	Issue	Page
Editorial Note—Problems Department	Jan., 1950	3
Guest Editorial — ASQC Dues — *George D. Edwards*	Jul., 1949	29

H—SOCIETY REPORTS

September, 1949

	Page
Annual Reports	
Report of Board of Directors	24
Report of the Executive Secretary	26
Exhibit A—Membership	27
Report of Treasurer	27
Report of Auditing Committee	28
Certificate of Audit	28
Exhibit B—Balance Sheet	28
Exhibit C—Statement of Cash Receipts and Disbursements	29

January, 1950

Statistics and Quality Control in Engineering Courses	
Report of the Subcommittee on College Courses, ASQC	27

March, 1950 **Page**

Report of Standards Committee, ASQC
Submitted November 28, 1949, to Mr. Ralph E. Wareham, President ASQC 11

I—CONFERENCES AND CONVENTIONS

Title	Issue	Page
Rutgers University Basic Conference Series	Jul., 1949	3
Announcing the Fourth Midwest Quality Control Conference	Sep., 1949	19
Report of Second Annual Quality Control Conference, Philadelphia and Delaware Sections	Mar., 1950	27
Announcing the Fourth Annual Convention, ASQC, and Fifth Midwest Quality Control Conference—Program Details	May, 1950	58

J—SELECTED ITEMS—ASQC NEWS

July, 1949; page 30

More Stringent Qualifications for Senior Membership
Examining Committee
Shewhart Medal Committee

September, 1949; page 30

Annual Meeting—1949
N.I.C.B. Report on Quality Control
Toledo Section Recognized

November, 1949; page 31

New England Sections Make Sustaining Contribution
Board of Directors 1949-50
Executive Committee 1949-50
Executive Committee Meets
Nominating Committee 1949-50
New Sections Recognized
1949 Shewhart Medal
Brumbaugh Award

January, 1950; page 35

Bell System Presents Historical Documents
Nominating Committee Report, 1950
Erie Section Recognized

March, 1950; page 30

Printing of Industrial Quality Control
Executive Committee Meets at Princeton
Chemical Technical Committee Established
1950 Annual Convention

May, 1950; page 88

Harold F. Dodge to Be Awarded the Shewhart Medal
Shewhart Medal Committee
1949 Brumbaugh Award
Midwest Sections Make Sustaining Contribution
Executive Committee Meets
Society Membership Badges
Charles J. Hudson Becomes Assistant Executive Secretary
Society Training Manual
Assistance to Program Committees

K—ADVERTISERS

ALLIS CHALMERS MFG. CO.: May, 1950; page 8.
ALLISON DIVISION, GMC: May, 1950; page 5.
ALUMINUM COMPANY OF AMERICA: May, 1950; page 107.
AMERICAN BOSCH CORPORATION: May, 1950; page 15.
AMPLEX DIVISION—CHRYSLER: May, 1950; page 10.
ANACONDA WIRE & CABLE COMPANY: May, 1950; page 105.
BENDER CALCULATOR CO.: May, 1950; page 86.
BENDIX SCINTILLA: May, 1950; page 11.
BERRETTONI & ASSOCIATES: May, 1950; page 82.
BORG-WARNER CORP.: May, 1950; page 14.
BROWN & SHARPE MFG. CO.: Nov., 1949; page 4; July, 1949; page 2; Sep., 1949, Jan., 1950, Mar., 1950; page 4; May, 1950; page 2.
BURGESS BATTERY CO.: May, 1950; page 90.
CUMMINS ENGINE CO.: May, 1950; page 6.
DEARBORN MOTORS CORP.: May, 1950; page 91.
DEERE & CO.: May, 1950; page 110.
DeLAVAL SEPARATOR CO.: May, 1950; page 92.
DELCO-REMY DIVISION, GMC: May, 1950; page 99.
DETROIT DIESEL ENGINE, GMC: May, 1950; page 109.
EDWARD DON & CO.: May, 1950; page 96.
ALLEN B. DUMONT LABORATORIES: May, 1950; page 13.
ENGINEER'S SPECIALTY DIVISION, (UNIVERSAL ENGRAVING & COLOR PLATE CO.): May, 1950; page 84.
ELLIOTT SERVICE CO.: Nov., 1949; page 7; Jan., 1950; page 20; Mar., 1950; page 11; May, 1950; page 114.
ESTERBROOK PEN CO.: May, 1950; page 101.
FEDERAL PRODUCTS CORP.: July, Sep., 1949; page 32; Nov., 1949, Jan., 1950; page 36; Mar., 1950; page 32; May, 1950; page 115.
FORD MOTOR CO.: May, 1950; page 4.
FULLER BRUSH CO.: May, 1950; page 98.
GENERAL ELECTRIC CO.: May, 1950; page 68.
GUIDE LAMP DIVISION, GMC: May, 1950; page 106.
LARRY HAMMOND CO.: May, 1950; page 85.
HARRISON RADIATOR, GMC: May, 1950; page 108.
INDUSTRIAL MANUFACTURING CO.: Mar., 1950; page 21; May, 1950; page 85.
INTERNATIONAL BUSINESS MACHINES CORP.: May, 1950; page 55.
INTERNATIONAL HARVESTER CO.: May, 1950; page 3.
JOHNS-MANVILLE CORP.: May, 1950; page 54.
JOHNSON GAGE CO.: May, 1950; page 85.
JOHNSON & JOHNSON: May, 1950; page 9.
KIMBERLY-CLARK CORP.: May, 1950; page 18.
KING-SEELEY CORP.: May, 1950; page 100.
LADISH CO.: May, 1950; page 20.
MARCHANT CALCULATING MACHINE CO.: May, 1950; page 34.
MANAGEMENT CONTROLS: May, 1950; page 34.
GLENN L. MARTIN CO.: May, 1950; page 97.
MINNEAPOLIS-HONEYWELL REGULATOR CO.: May, 1950; page 111.
MINNEAPOLIS-MOLINE: May, 1950; page 94.
MINNESOTA MINING & MANUFACTURING CO.: May, 1950; page 67.
McGRAW-HILL BOOK CO., INC.: Nov., 1949; page 35.
NASH DIVISION, NASH-KELVINATOR: May, 1950; page 64.
NEW DEPARTURE, GMC: May, 1950; page 104.
NEW HOLLAND MACHINE CO.: May, 1950; page 93.
NORTON CO.: May, 1950; page 112.
OLDSMOBILE, GMC: May, 1950; page 7.
HOTEL PFISTER: May, 1950; page 66.
Q. C. QUICKIE CALCULATOR: May, 1950; page 72.
REMINGTON RAND: Nov., 1949; page 18.
REPUBLIC STEEL CORP.: May, 1950; page 16.
SCREW MACHINE PRODUCTS: May, 1950; page 90.
SHEFFIELD CORP.: May, 1950; page 84.
A. O. SMITH CORP.: May, 1950; page 65.
SOLAR AIRCRAFT CO.: May, 1950; page 103.
SOUTHWEST WISCONSIN: May, 1950; page 63.
STANDARD GAGE CO.: May, 1950; page 113.
L. S. STARRET: May, 1950; page 82.
SYLVANIA ELECTRIC PRODUCTS: May, 1950; page 12.
TIMKEN-DETROIT AXLE CO.: May, 1950; page 102.
UNITED AIR LINES: May, 1950; page 62.
VEEDER-ROOT, INC.: May, 1950; page 56.
ZENITH RADIO CORP.: May, 1950; page 95.